

FIGURE 1 - Pervasive Commerce System

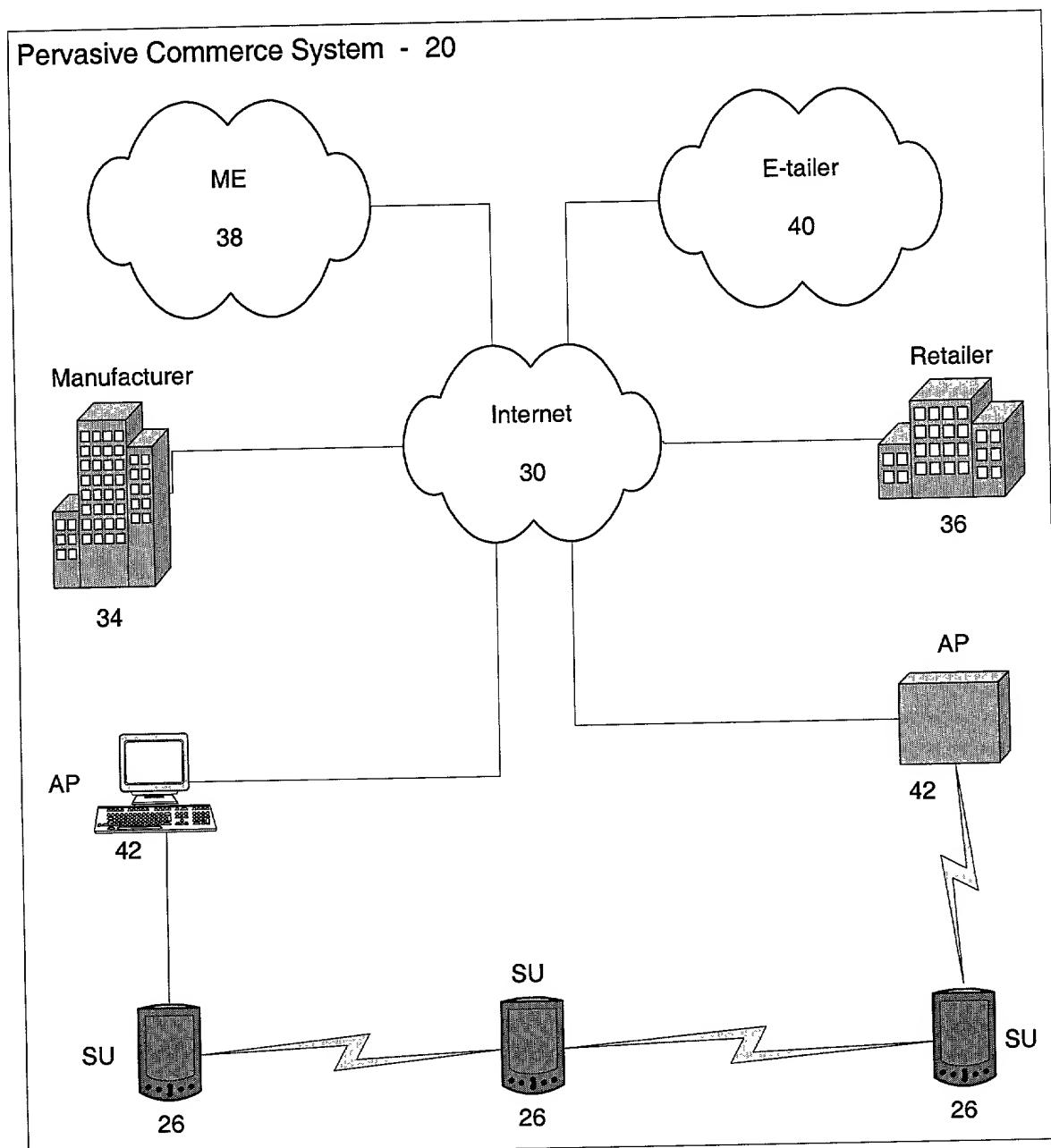


FIGURE 2 - Generic Case Structure

Item Data Block (“I” Block)	
Case Information	ID, version, etc., for the entire case.
Link Information	Relationship to other cases.
Item Information	ID, name, description, etc., for the item.
ME Public Key	Case key or ME key version, used for encryption and whose private key peer is used in “I” and “O” Block signatures.
Distributor Public Key	Assigned to or received from Distributor; private key is used in “D” Block signature.
Block Signature	ME signature of “I” Block

Object Block (“O” Block)	
Object Information	ID, type, description, encoding, size, etc., for the contained digital object.
Object	Image, music, digital asset, etc.
Block Signature	ME signature of “O” Block (via private key peer to ME Public Key).

Distributor Data Block (“D” Block)	
Distributor Information	ID, name, information, etc., for Distributor.
Item Information	Encrypted wholesale price, etc., of item.
Item Options	Selectable features and options of item.
Mutation Rules	Controlling application behavior for case mutation (e.g., expiration date).
Passer Public Key	Assigned to or received from Passer, whose private peer is used in “P” Block signature.
Block Signature	Distributor signature of “D” Block (via private key peer to Distributor Public Key).

Passer Data Block (“P” Block)	
Passer Information	ID, name, etc., of Passer.
Item Information	Sales price, comments, etc., about item.
Receiver Public Key	Assigned to or received from Receiver.
Block Signature	Passer signature of “P” Block (via private key peer to Passer Public Key).

Receiver Data Block (“R” Block)	
Receiver Information	ID, name, etc., of Receiver.
Block Signature	Receiver signature of “R” Block (optional).

FIGURE 3 - Pervasive Commerce Case Layout

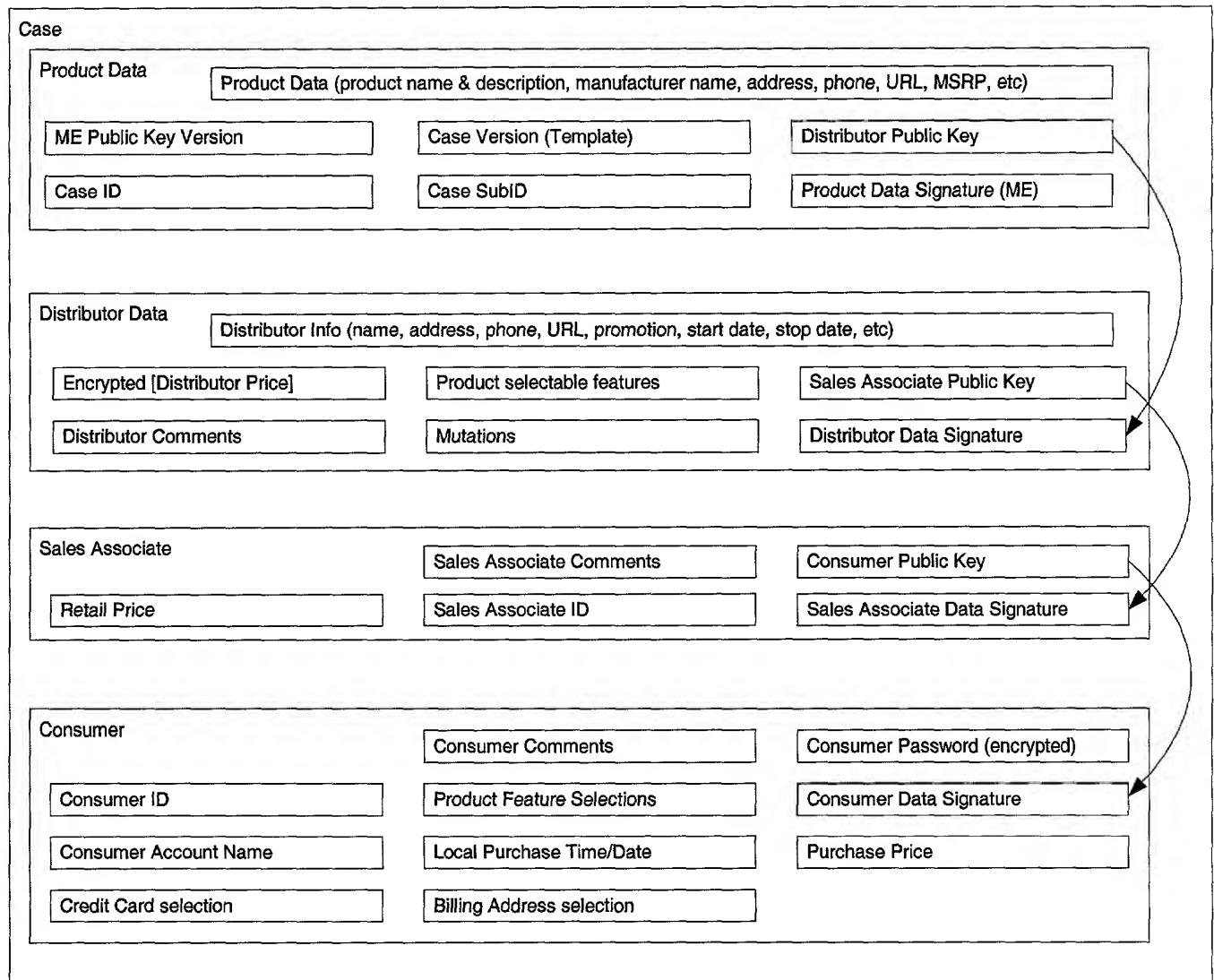


FIGURE 4 – Generic Case Flow

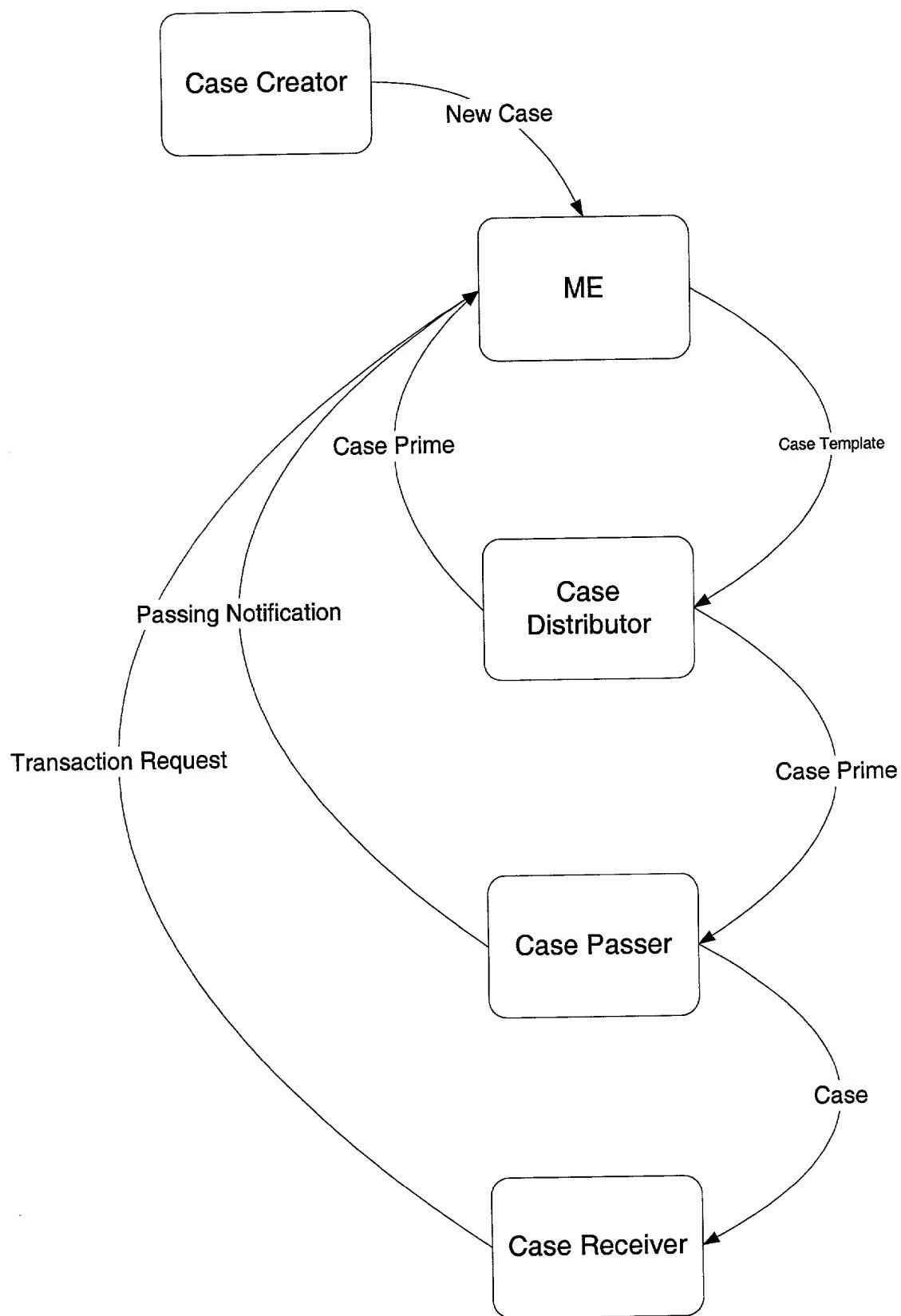


FIGURE 5 - New Case Template Layout

Case

Item Data		
Product Data (product name & description, manufacturer name, address, phone, URL, MSRP, etc)		
ME Public Key Version	Case Version (Template)	Distributor Public Key
Case ID	Case SubID	Product Data Signature (ME)
Dynamic Data		
Product Feature Selection Choices		

FIGURE 6 - Case Prime Layout

Case

Item Data		
Product Data (product name & description, manufacturer name, address, phone, URL, MSRP, etc)		
ME Public Key Version	Case Version (Template)	Distributor Public Key
Case ID	Case SubID	Product Data Signature (ME)
Digital Object(s)		
Object Data	Digital Object Signature (ME)	
Distributor Data		
Distributor Info (name, address, phone, URL, promotion, start date, stop date, etc)		
Encrypted [Distributor Price]	Product selectable features	Sales Associate Public Key
Distributor Comments	Mutations	Distributor Data Signature
Dynamic Data		
Distributor Price		

FIGURE 7 - Passed Case Layout

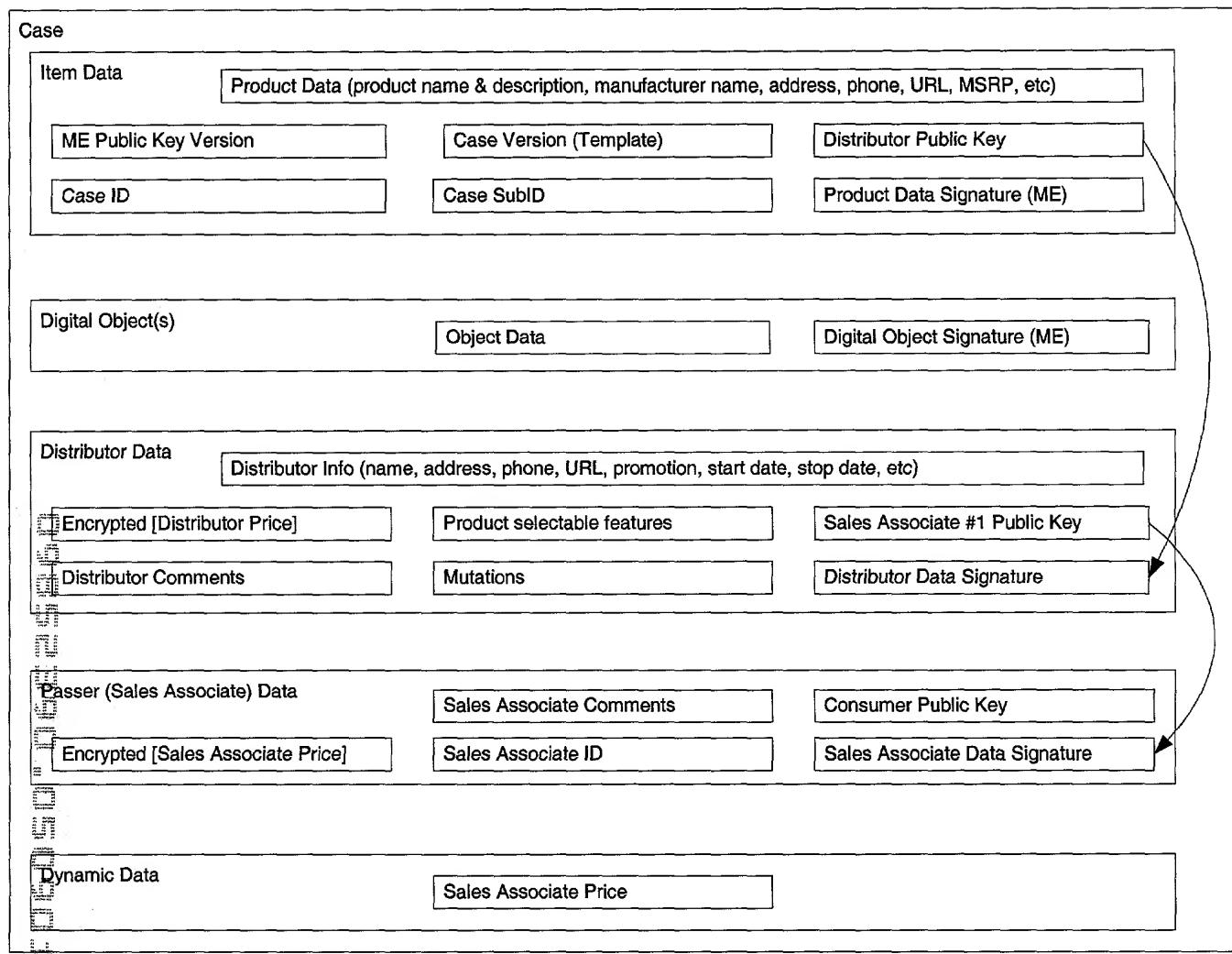


FIGURE 8 - Complete Case Layout

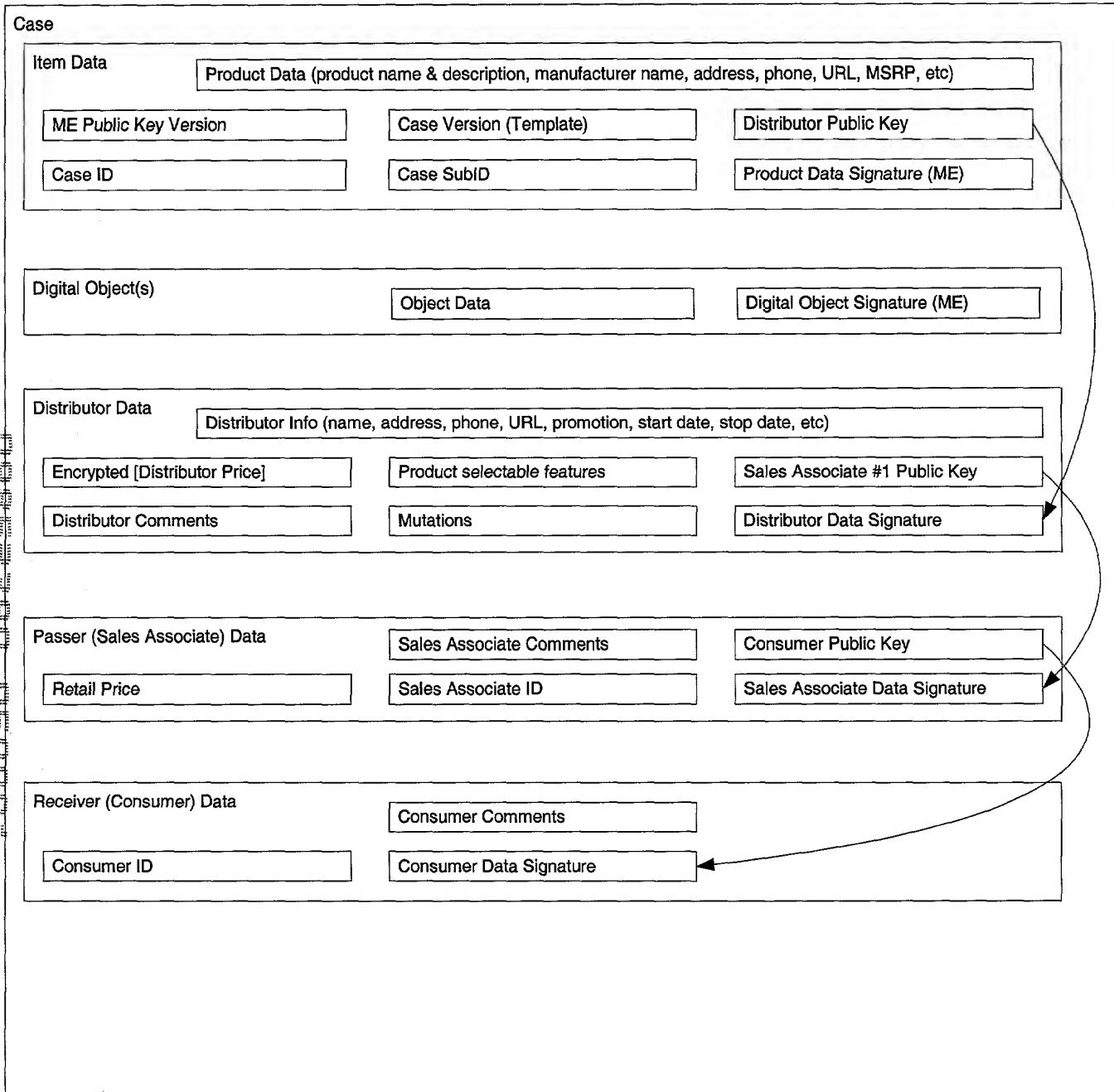


FIGURE 9 - Consumer Synchronization of PDA with ME

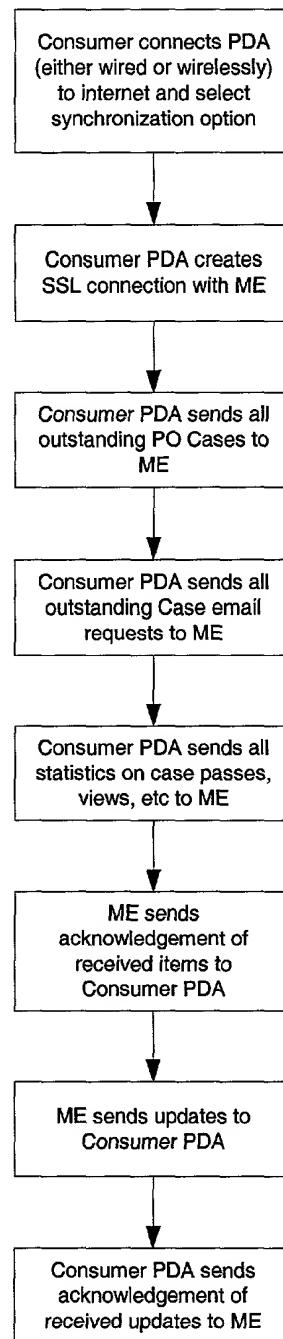


FIGURE 10 - Consumer Makes Case-Based Purchase

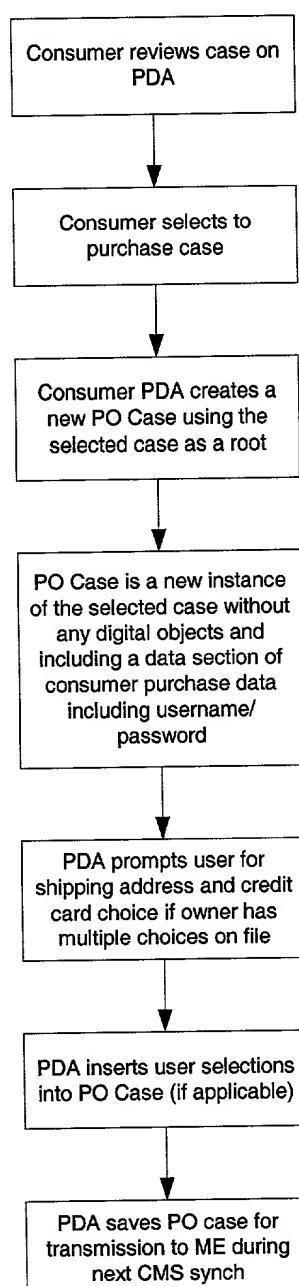


FIGURE 11 - Purchase Request Case Layout

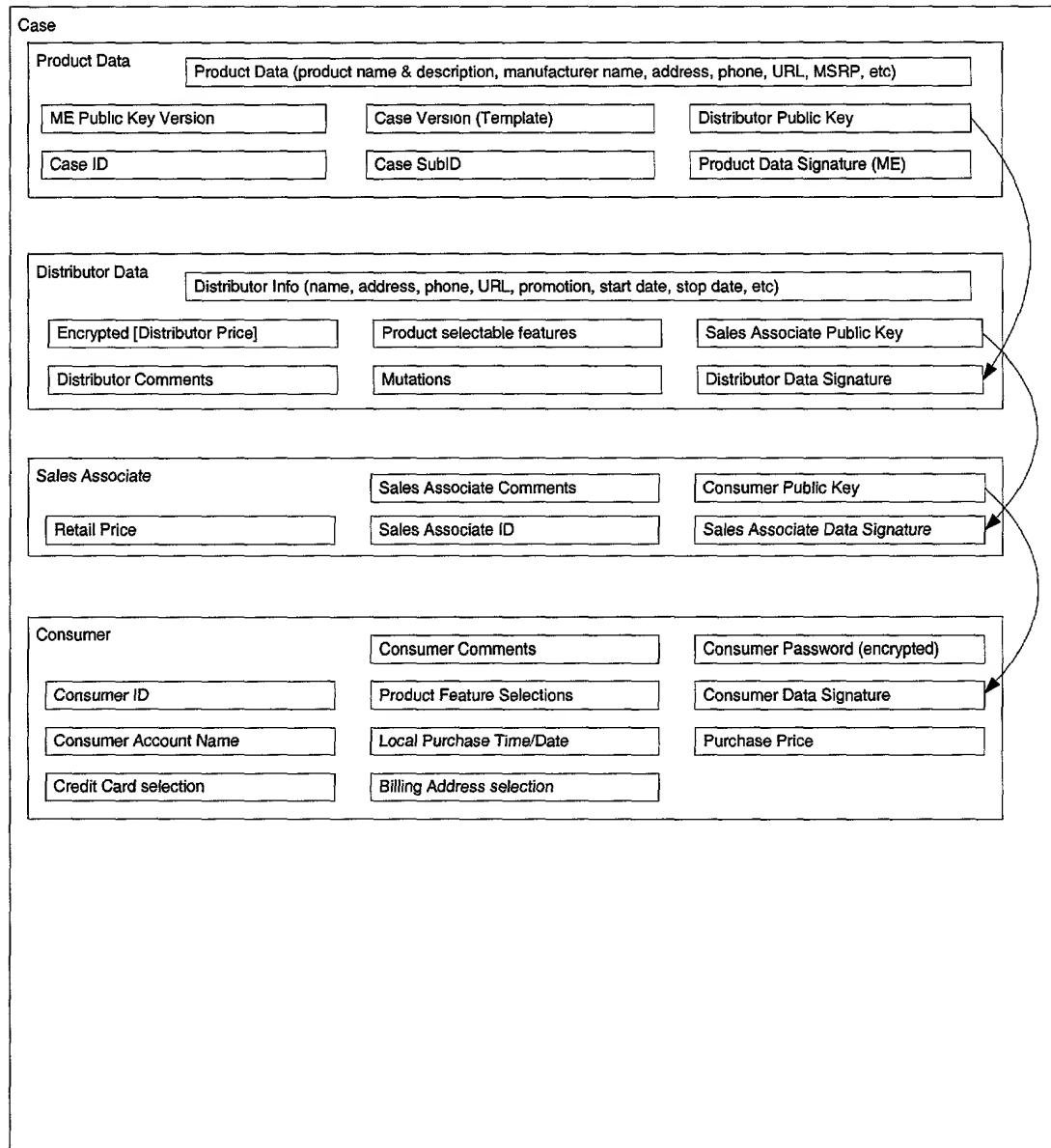


FIGURE 12 - Sales Associate Passes Case to Sales Associate

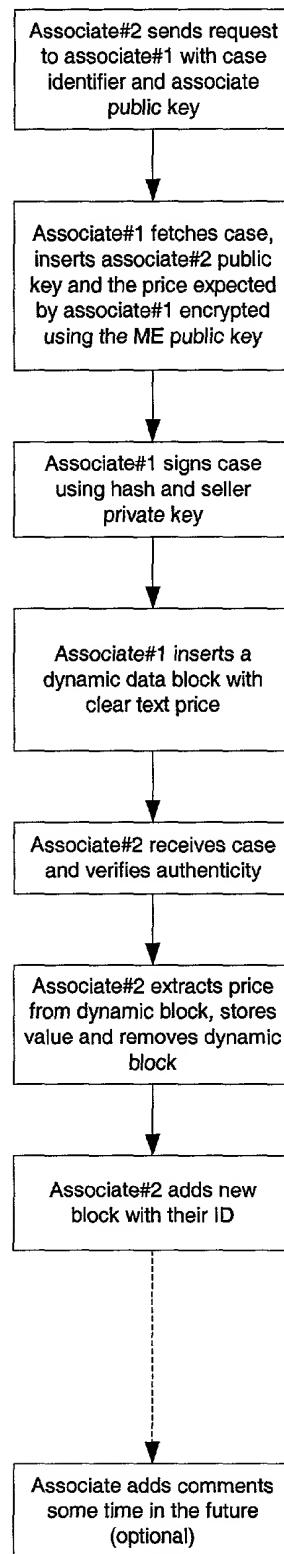


FIGURE 13 - Sales Associate Passes Case to Consumer

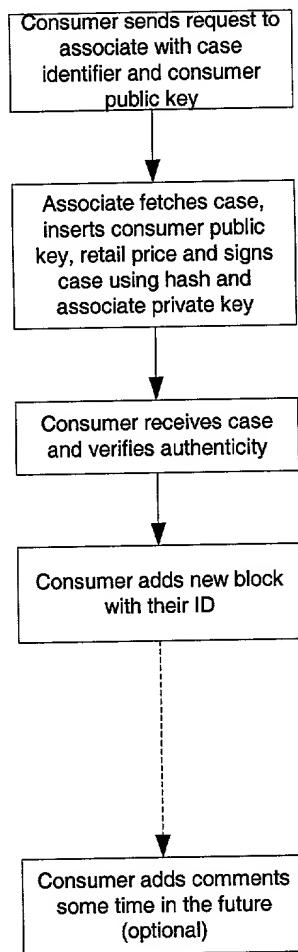


FIGURE 14 - Consumer Passes Case to Consumer

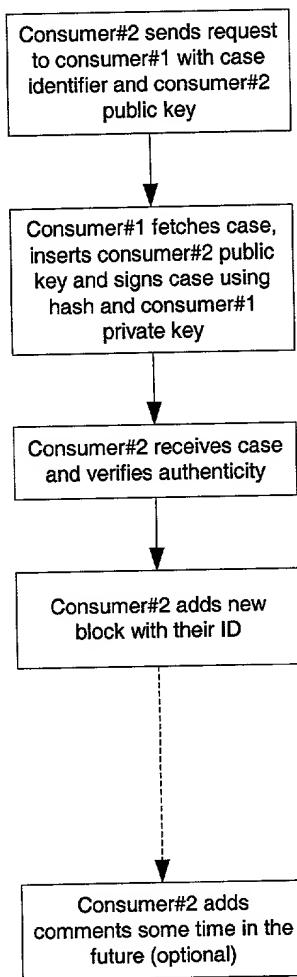
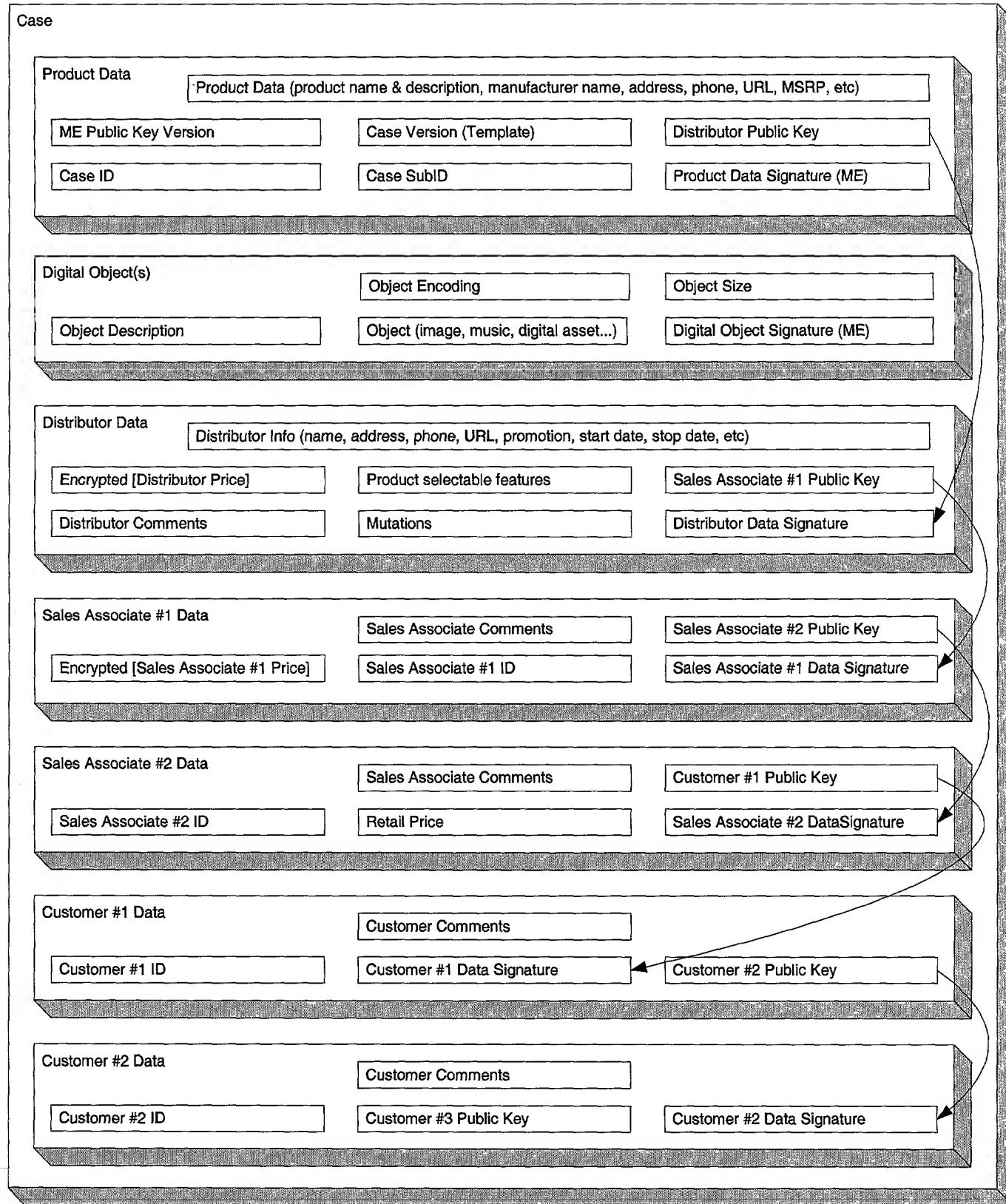


FIGURE 15 - Pervasive Commerce Case Layout



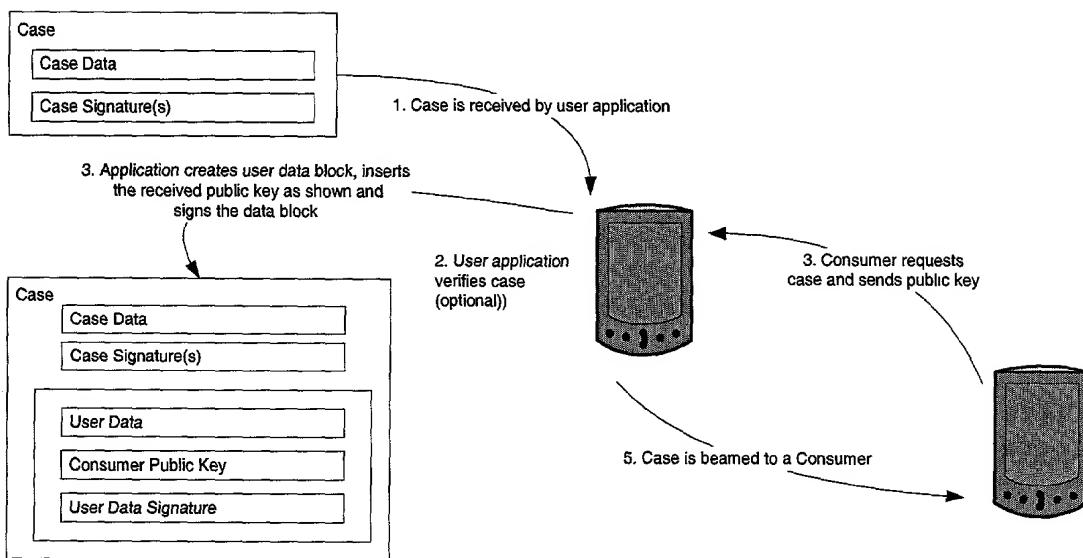


FIGURE 16 – Receiver Selected Key Exchange

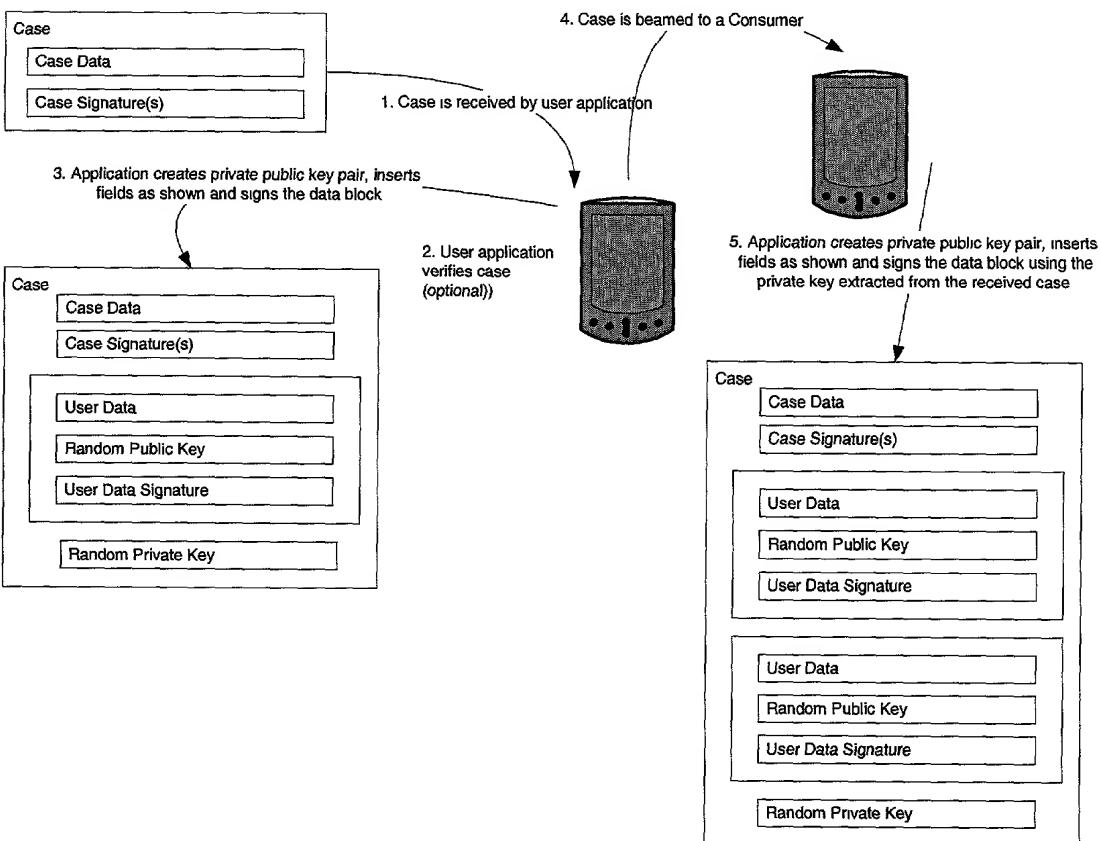


FIGURE 17 – Passer Generated Key Exchange

Digital Object
Object Description (text name and description of the contained digital object)
Object Type (image, video, music clip, music song, music album)
Object Encoding (jpeg, tiff, mpeg, mp3, midi, XrML, zip, pdf)
Object Size (total size of object in bytes)
Object (actual object data)
Digital Object Signature (ME)

FIGURE 18 – DIGITAL OBJECT

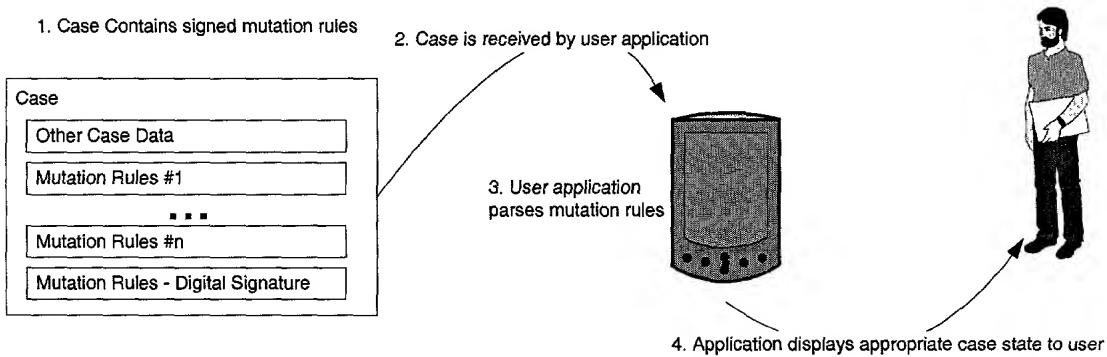


FIGURE 19 – Trusted Case Mutation

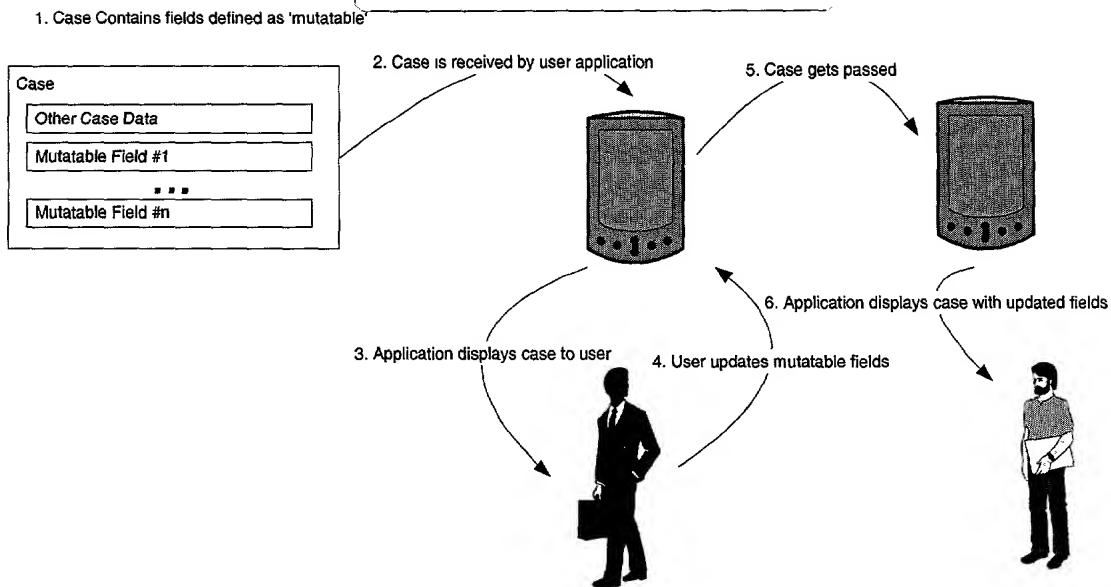


FIGURE 20 – Untrusted Case Mutation